Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A multi-mode wireless device on a single substrate, comprising:

an integrated circuit having an analog portion integrated on the substrate, comprising:

a cellular radio core;

a radio sniffer coupled to the cellular radio core; and

a short-range wireless transceiver core coupled to the cellular radio core; and

the integrated circuit having a digital portion integrated on the substrate, comprising:

a reconfigurable processor core coupled to the cellular radio core and the short-range wireless transceiver core, ~~the reconfigurable processor core having multiple central processors and multiple digital signal processors,~~ the reconfigurable processor core configured to handle a plurality of wireless communication protocols; and

<u>a router coupled to the reconfigurable processor core, the cellular radio core, and the short-range wireless transceiver core, the router configured to transmit data packets in parallel via the cellular radio core and the short-range wireless transceiver core</u> ~~a memory array coupled to the reconfigurable processor core~~.

Claim 2 (previously presented):   The wireless device on a single substrate of claim 1, wherein at least one of the wireless communication protocols conforms to a Bluetooth™ or IEEE802.11 protocol.

Claim 3-6 (canceled)

Claim 7 (original):   The wireless device on a single substrate of claim 1, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.

Claim 8 (cancel)

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Claim 9 (currently amended): The wireless device on a single substrate of claim [[8]] 1, wherein the router further comprises an engine configured to track the destinations of the data packets ~~and send them in parallel through a plurality of separate pathways~~.

Claim 10 (currently amended):   The wireless device on a single substrate of claim [[8]] 1, wherein the router is configured to send the data packets in parallel through a primary and a secondary communication channel, wherein the primary communication channel comprises a short-range channel and the secondary communication channel comprises a cellular channel.

Claim 11 (currently amended):   A portable computer system, comprising:

a processor;

a multi-mode wireless integrated circuit formed on a single substrate coupled to the processor, the integrated circuit comprising:

an analog portion integrated on the substrate, including:

a cellular radio core; and

a short-range wireless transceiver core; and

a digital portion integrated on the single substrate, including:

a reconfigurable processor core coupled to the cellular radio core and the short-range wireless transceiver core, the reconfigurable processor core including multiple programmable processors and multiple dedicated processors configured to handle a plurality of wireless communication protocols; and

a memory array coupled to the reconfigurable processor core;

a program storage device coupled to said processor; and

an input recognizer embodied in said program storage device, said input recognizer configured to receive input from a user.

Claim 12 (previously presented):   The portable computer system of claim 11, wherein one of the wireless communication protocols conforms to a Bluetooth™ protocol.

Claims 13-15 (canceled)

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Claim 16 (currently amended):   The portable computer system of claim 11, wherein the ~~reconfigurable processor core includes~~ multiple programmable processors include one or more digital signal processors (DSPs).

Claim 17 (currently amended):   The portable computer system of claim [[11]] 16, wherein the ~~reconfigurable processor core includes~~ multiple programmable processors include one or more reduced instruction set computer (RISC) processors.

Claim 18 (original):   The portable computer system of claim 11, further comprising a router coupled to the processor, the cellular radio core, and the short-range wireless transceiver core.

Claim 19 (previously presented):   The portable computer system of claim 18, wherein the router further comprises an engine configured to track the destinations of packets and send them in parallel through a plurality of separate pathways.

Claim 20 (previously presented):   The portable computer system of claim 18, wherein the router is configured to send packets in parallel through a primary and a secondary communication channel.

Claim 21 (currently amended):   A method comprising:

communicating data packets via a cellular radio medium using a multi-mode wireless integrated circuit having a substrate including a cellular radio core, a short-range wireless transceiver core, and a processor core; and

communicating at least some of the data packets in parallel via a short-range wireless medium using the multi-mode wireless integrated circuit.

Claim 22 (cancel)

Claim 23 (currently amended):   The method of claim [[22]] 21, further comprising primarily communicating the data packets via a primary communication channel and periodically communicating the data packets via a secondary communication channel.

Claim 24 (currently amended):   The method of claim 21, further comprising communicating the data packets via the short-range wireless medium while in a local area

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network and communicating the data packets via the cellular radio medium while outside the local area network.

Claim 25 (currently amended):   The method of claim 24, further comprising powering down the short-range wireless transceiver core while communicating the data packets via the cellular radio medium.

Claim 26 (previously presented):   The method of claim 21, further comprising searching for a short-range wireless medium signal during an idle time of the cellular radio core.

Claim 27 (previously presented):   The method of claim 26, further comprising transmitting a deregistration message to a cellular system if the short-range wireless medium signal is found.

Claim 28 (canceled)

Claim 29 (cancel)

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